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45951

From: Prats, Frank
Sent: Wednesday, August 13, 2003 3:12 PM
To: STIC-ILL
Subject: reference request for 10/045,539

PLease send me the following two references for this case. Thanks!!

Francisco C. Prats ("Frank")
Patent Examiner
AU 1651
CM1-11A07 (mailbox CM1 11B15)
703-308-3665

Reference 1:

ACCESSION NUMBER: 1998:646205 CAPLUS
DOCUMENT NUMBER: 129:327797
TITLE: Laser micromanipulation systems as universal tools in cellular and molecular biology and in medicine
AUTHOR(S): Schutze, K.; Posl, H.; Lahr, G.
CORPORATE SOURCE: Laser Laboratory and Molecular Biology, First Medical Department, Academic Hospital Munchen-Harlaching, I. Med. Abteilung, Munchen, D-81545, Germany
SOURCE: Cellular and Molecular Biology (Paris) (1998), 44(5), 735-746
CODEN: CMOBEF; ISSN: 0145-5680
PUBLISHER: C.M.B. Association
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
AB A review with many refs. The UV-laser microbeam has been established as a valuable tool in a wide area of mol. biol. as well as in medical research and applications. This system allows to cut or fuse microscopically small specimen. An important application of the cutting laser is laser microbeam microdissection (LMM) combined with laser pressure catapulting (LPC), which allows to procure single cells or small homogeneous cell areas for subsequent mol. anal. in an entirely "non-contact" manner. With LMM minute tissue areas, single cells or chromosomes are microdissected and sepd. from their surroundings. Subsequently, LPC ejects the dissectates directly into the cap of a sample tube without any mech. contact. This enables the rapid procurement of homogeneous specimen from less than one up to several hundreds of micrometers in diam. without encroachment of the adjacent region. The mRNA information of the selected specimen as well as of the remaining probe are well preserved, as demonstrated with laser isolated samples from a routinely prepd. tissue section of a differentiated colorectal adenocarcinoma. Reverse transcription of specific mRNA coding for cytoplasmic .beta.-actin and subsequent hemi-nested PCR amplification was not impaired. Any kind of tissue, as well as single cells from different sources and even subcellular structures can be captured using this laser method. Wherever homogeneous samples are required to analyze cell or chromosome-specific genetic alterations such as in cancer research or prenatal diagnosis this unique and rapid laser micropreparation method will become a key technol. of great value.

1387628

Reference 2:

ACCESSION NUMBER: 1998:473861 BIOSIS
DOCUMENT NUMBER: PREV199800473861
TITLE: Laser micromanipulation systems as universal tools in cellular and molecular biology and in medicine.
AUTHOR(S): Schuetze, K.; Poesl, H.; Lahr, G.
CORPORATE SOURCE: Laser Lab. Molecular Biol., First Med. Dep., Academic Hosp. Muenchen-Harlaching, I. Med. Abt., Sanatoriumsplatz 2, D-81545 Muenchen Germany

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Searching 1976-2000...

Results of Search in 1976-2000 db for:
(SPEC/Microdissection AND CLAS/435/6): 63 patents.
Hits 1 through 50 out of 63

Final 13 Hits

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Refine Search spec/Microdissection and clas/435/6

	PAT. NO.	Title
1	6,066,459	Method for simultaneous detection of multiple fluorophores for in situ hybridization and multicolor chromosome painting and banding
2	6,066,453	Array-based detection of genetic alterations associated with disease
3	6,054,268	Method and system for genotyping
4	6,043,037	Rapid method for measuring clastogenic fingerprints using fluorescence in situ hybridization
5	6,040,139	Laser cell purification system
6	6,033,849	Method for isolation of extrachromosomal amplified genes
7	6,025,127	Nucleic acid mutation detection in histologic tissue
8	6,013,486	Method for selection of insertion mutants
9	6,007,994	Multiparametric fluorescence in situ hybridization
10	5,981,178	Methods for screening for mutations at various positions in the introns and exons of the cystic fibrosis gene
11	5,976,790	Comparative Genomic Hybridization (CGH)
12	5,972,667	Method and apparatus for activating a thermo-enzyme reaction with electromagnetic energy
13	5,965,362	Comparative genomic hybridization (CGH)
14	5,958,688	Characterization of mRNA patterns in neurites and single cells for medical diagnosis and therapeutics
15	5,925,519	Genetic alterations associated with prostate cancer
16	5,922,543	Detection as chromosomal translocations by extending and ligating differentially-labeled probes Hybridized on different sides of a break-point
17	5,919,624	Methods for detecting cervical cancer
18	5,906,919	Method for chromosomes classification
19	5,876,933	Method and system for genotyping
20	5,876,927	Nucleic acid diagnostic assay for Charcot-Marie-Tooth Disease Type 1B

21 5,874,222 M6P/IGF-II receptor tumor suppressor gene
22 5,871,926 Sensitive method for measurement of telomeric DNA content in human tissues
23 5,856,097 Comparative genomic hybridization (CGH)
24 5,856,089 Method for the detection of chromosome structural abnormalities by in situ hybridization to fixed tissue
25 5,851,769 Quantitative DNA fiber mapping
26 5,843,657 Isolation of cellular material under microscopic visualization
27 5,843,649 Method of identifying clonal cell samples using heteroduplex generators
28 5,843,644 Isolation of cellular material under microscopic visualization using an adhesive/extraction reagent tipped probe
29 5,834,203 Method for classification of pixels into groups according to their spectra using a plurality of wide band filters and hardwire therefore
30 5,834,190 Chromosome 18Q loss and prognosis in colorectal cancer
31 5,817,462 Method for simultaneous detection of multiple fluorophores for in situ hybridization and multicolor chromosome painting and banding
32 5,814,444 Methods for making and using single-chromosome amplfication libraries
33 5,792,610 Method for conducting multiparametric fluorescence in situ hybridization
34 5,776,683 Methods for identifying genes amplified in cancer cells
35 5,776,677 Methods of detecting cystic fibrosis gene by nucleic acid hybridization
36 5,759,781 Multiparametric fluorescence in situ hybridization
37 5,756,696 Compositions for chromosome-specific staining
38 5,753,505 Neuronal progenitor cells and uses thereof
39 5,744,306 Methods for nucleic acid detection, sequencing, and cloning using exonuclease
40 5,731,171 Sequence independent amplification of DNA
41 5,731,156 Use of anti-embryonic hemoglobin antibodies to identify fetal cells
42 5,728,527 Detection of hybridized oligonocleotide probes in living cells
43 5,723,593 Diagnostic assay for Charcot Marie Tooth Disease Type 1B
44 5,723,290 Methods for profiling mRNA expression in neurites
45 5,721,098 Comparative genomic hybridization
46 5,719,024 Method for chromosome classification by decorrelation statistical analysis and hardware therefore
47 5,712,097 Tumor suppressor gene, DPC4
48 5,702,886 Chromosome I8Q loss and prognosis in colorectal cancer
49 5,693,470 Diagnostic method employing MSH2 nucleic acids
50 5,693,464 Method for generating chromosome region-specific probes

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Searching 1976-2000...

Results of Search in 1976-2000 db for:
(SPEC/Microdissection AND CLAS/435/6): 63 patents.
Hits 51 through 63 out of 63

	PAT. NO.	Title
51	5,665,549	Comparative genomic hybridization (CGH)
52	5,665,540	Multicolor in situ hybridization methods for genetic testing
53	5,658,730	Methods of human prostate cancer diagnosis
54	5,654,148	Multicolor in situ hybridization methods for genetic testing
55	5,599,670	.beta.-glucuronidase and glucuronide permease gene system
56	5,580,728	Method and system for genotyping
57	5,545,524	Compositions and methods for chromosome region-specific probes
58	5,541,067	Method and system for genotyping
59	5,538,869	In-situ hybridization probes for identification and banding of specific human chromosomes and regions
60	5,487,970	Compositions and methods for detecting gene rearrangements and translocations
61	5,449,604	Chromosome 14 and familial Alzheimers disease genetic markers and assays
62	5,427,932	Repeat sequence chromosome specific nucleic acid probes and methods of preparing and using
63	5,194,600	Genes which participate in .beta.-glucan assembly and use thereof